

CLAIMS

1. Electronic device furnished with magnetic screening having a peak of resonant magnetic losses, characterised in that the screening comprises at least one inductive winding constituted by at least one segment (10, 46) of metallic wire wound around at least one assembly (12, 44) of magnetic filaments (13, 45).

2. Device according to claim 1, wherein the magnetic filaments (13, 45) are sheathed in glass.

3. Device according to claim 1, wherein the diameter of the metallic wire is comprised between 5  $\mu\text{m}$  and 1 mm, the length of this wire is comprised between 0.001 mm and 20 cm, the surface of a turn is comprised between 0.01  $\text{mm}^2$  and 1  $\text{cm}^2$ , and the number of turns is comprised between 0.5 and 50.

4. Device according to claim 1, wherein each segment comprises plural superposed windings of metallic wire.

5. Device according to claim 4, wherein these windings are performed in opposite directions.

6. Device according to claim 1, wherein each segment (10, 46) has a length comprised between 0 and 50 mm, the distance between two neighbouring segments (10, 46) being comprised between 0 and 50 mm.

7. Device according to claim 1, wherein at least two inductive segments of different characteristics are combined.

8. Device according to claim 1, comprising at least one textile thread without magnetic or electrical properties to ensure keeping the filaments in place (13, 45).

9. Device according to claim 1, comprising a non-conductive wire which carries the conductive segments.

10. Device according to claim 1, wherein conductive wire is conformed, the fixation of the assembly of conductive wire + magnetic filaments being effected by embedding in a resin and sectioning the conductive wire at desired places in order to produce the inductive segments.

11. Device according to claim 10, wherein the assembly of conductive wire + magnetic filaments is sectioned with grooves.

12. Device according to claim 11, wherein the grooves have a depth equal to the diameter of the wire and over a length between 0.1 and 50 mm.

13. Device according to any one of the foregoing claims, wherein the screening wire (12) is wound on a core of a cable (32).

14. Device according to claim 1, wherein at least one layer of screening (40) is disposed on a casing (41) which generates at least one interference according to a polarisation, in which the screening wire is structured in each layer so as to attenuate an interference by placing it parallel to the magnetic field of this interference.

15. Device according to claim 14, wherein the inductive segments (46) are spaced periodically on the screening wire (44), their distribution in each screening layer (40) itself also being periodic.

16. Device according to claim 14 comprising two screening layers (40, 40').

17. Device according to claim 16, wherein a first layer (40) deals with a first polarisation and is transparent in the other, and a second layer (40') deals with a second polarisation, the screening wire of this second layer being regularly sectioned (53) so as to cut off the reflector effect linked to the conductivity of the magnetic filaments.